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Math 1060–5

Friday, October 19, 2012



Directions: Show all work for full credit. Clearly indicate all answers. Simplify all mathematical expressions completely. No calculators are allowed.

1. Simplify the following expression: (15 points)

$$\sec\alpha \cdot \frac{\sin\alpha}{\tan\alpha}$$

2. Verify the following identity: (15 points)

$$\frac{\cos\theta\cot\theta}{1-\sin\theta} - 1 = \csc\theta$$

3. Give all solutions to each of the following equations: (10 points each)

(a) 
$$3\sec^2 x - 4 = 0$$

(b)  $\sin x(\sin x + 1) = 0$